

Title (en)

OPTICAL FIBER WITH LARGE EFFECTIVE AREA AND LOW DISPERSION SLOPE FOR SUBMARINE APPLICATIONS

Title (de)

LICHTLEITFASER MIT GROSSER EFFEKTIVER FLÄCHE UND GERINGEM DISPERSIONSGRADIENTEN FÜR
UNTERWASSERANWENDUNGEN

Title (fr)

FIBRE OPTIQUE A SURFACE UTILE IMPORTANTE ET A FAIBLE PENTE DE DISPERSION POUR APPLICATIONS SOUS-MARINES

Publication

EP 1216429 A1 20020626 (EN)

Application

EP 00959418 A 20000825

Priority

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Abstract (en)

[origin: WO0123925A1] A single mode optical waveguide fiber having a relatively large effective area, a negative total dispersion at 1560 nm and a low dispersion slope has a segmented core having a central segment (10), a first annular segment (12), a second annular segment (14) and a third annular segment (16). Each segment has a relative refractive index percent, and an inner and outer radius. The relative refractive index percent and the radii of each core segment are chosen from the following ranges: the relative index of the central segment within the range of about 0.4 % to about 0.9 %; the relative index of the first annular segment within the range of about -0.2 % to about 0.1%; the relative index of the second annular segment within the range of about 0.2 % to about 0.5 %; the relative index of the third annular segment within the range of about -0.2 % to about 0 %; the outer radius (40) of the central segment within the range of about 2.3 μm and about 4 μm ; the center radius (44) of the third annular segment within the range of about 7.8 μm and about 10 μm ; and the width of the third annular segment within the range of about 0.5 μm to about 3.5 μm .

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G02B 6/16; **G02B 6/22**

IPC 8 full level

G02B 6/02 (2006.01); **G02B 6/036** (2006.01)

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